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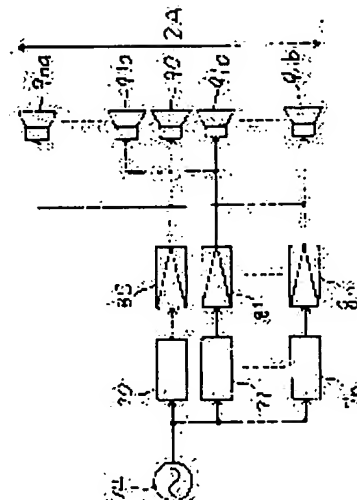
SHINDO TAKEO

(54) DIRECTIVITY CONTROL TYPE SPEAKER ARRAY SYSTEM

(57)Abstract:

PURPOSE: To easily obtain a uniform directivity over a board band from a low to a high sound frequency band by using a finite response length digital filter (FIR filter) so as to apply optimum control to the amplitude and phase characteristic of a speaker array for each frequency point.

CONSTITUTION: The directivity control type speaker array system consists of plural FIR filters 70-7n, plural amplifiers 80-8n and plural speaker units 90, 91a, 91b - 9na, 9mb and a sound signal generated from a sound signal source 14 is branched into plural ways and inputted to the FIR filters 70-7n. The array units are grouped from the center of the speaker array toward one end into one or plural adjacent speaker units 90-9n and speaker units 90-9n at the symmetrical position as one pair such as 91a and 91b. One FIR filter 70-7n controls all the sets of the speaker units 90-9n.



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